Smart Skies			
2005 Science			
Curriculum Framework			
Arkansas Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AR	SCI.5.NS.1.5.6	Develop and implement strategies for long-term, accurate data collection
Fly by Math	AR	SCI.5.PS.6.5.4	Compare and contrast potential energy and kinetic energy as applied to motion
Line Up with Math	AR	SCI.5.PS.6.5.4	Compare and contrast potential energy and kinetic energy as applied to motion
Smart Skies			
2005 Science			
Curriculum Framework			
Arkansas Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AR	SCI.6.PS.6.6.7.b	Describe the effects of force (speed up, slow down or change the direction of motion)
Fly by Math	AR	SCI.6.PS.6.6.8	Conduct investigations to demonstrate change in direction caused by force
Fly by Math	AR	SCI.6.PS.6.6.9	Conduct investigations to calculate the change in speed caused by applying forces to an object
Line Up with Math	AR	SCI.6.PS.6.6.7.b	Describe the effects of force (speed up, slow down or change the direction of motion)
Line Up with Math	AR	SCI.6.PS.6.6.8	Conduct investigations to demonstrate change in direction caused by force
Line Up with Math	AR	SCI.6.PS.6.6.9	Conduct investigations to calculate the change in speed caused by applying forces to an object
Smart Skies			
2005 Science			
Curriculum Framework			
Arkansas Science			
Grades 9-12 (Physical Science)			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AR	SCI.9-12.P.6.PS.3	Compare and contrast among speed, velocity and acceleration
Fly by Math	AR	SCI.9-12.P.6.PS.5.a	Interpret graphs related to motion (distance versus time (d-t))
Fly by Math	AR	SCI.9-12.P.6.PS.4.c	Solve problems using the formulas for speed and acceleration (Where a = acceleration, v = speed (velocity), delta t = change in time, delta v = change in velocity, t = time and d = distance)
Line Up with Math	AR	SCI.9-12.P.6.PS.3	Compare and contrast among speed, velocity and acceleration

Line Up with Math	AR	SCI.9-12.P.6.PS.4.c	Solve problems using the formulas for speed and acceleration (Where a = acceleration, v = speed (velocity), delta t = change in time, delta v = change in velocity, t = time and d = distance)
Smart Skies			
2005 Science			
Curriculum Framework			
Arkansas Science			
Grades 9-12 (Physics)			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AR	SCI.9-12.MF.1.P.4.a	Compare graphic representations of motion (d-t)
Fly by Math	AR	SCI.9-12.MF.1.P.9	Apply Newton's first law of motion to show balanced and unbalanced forces